I claim:

- 1. A brass-wind instrument comprising:
 - a mouthpiece;
- a lead pipe in fluid communication with said mouthpiece;
- a monoblock valve body in fluid communication with said lead pipe further comprising a plurality of valve chambers;
- a plurality of valves dispersed in said valve chambers;
- a -plurality of elongation tubes in fluid communication with said monoblock valve body to elongate an air column therein;

an exit tube; and

- a bell in fluid communication said exit tube.
- 2. The brass-wind instrument of claim 1 wherein each valve comprises an unimpeded air channel.
- 3. The brass-wind instrument of claim 1 wherein each elongation tube interfaces with said monobody valve block at an angle substantially perpendicular to the axis of said valve chamber.
- 4. The brass-wind instrument of claim 1 wherein said mouthpiece is gapless.
- 5. The brass-wind instrument of claim 4 wherein said gapless mouthpiece comprises a negatively shaped conical shank.

- 6. The brass-wind instrument of claim 5 wherein said negatively shaped conical shank comprises an inner diameter equal to the inner diameter of the entrance to said leadpipe.
- 7. The brass-wind instrument of claim 6 wherein said leadpipe has a positive conical shape.
- 8. The brass-wind instrument of claim 1 wherein the valve channel in said monobody valve block further comprises valve guider.
- 9. The brass-wind instrument of claim 1wherein said monobody valve block comprises a threaded region at the top of each valve cylinder to complimentarily receive a valve cap.
- 10. The brass-wind instrument of claim 1 wherein said monobody valve block comprises a threaded region at the bottom of each valve cylinder to complementarily receive a valve resinator.
- 11. A gapless mouthpiece comprising a cylinder having a bell-shaped first end and a negative conically-shaped shank comprising a second end, wherein said second end is received in a lead pipe of a brass-wind instrument.
- 12. The gapless mouthpiece of claim 11 wherein the inner diameter of said second end has a smallest dimension equal to the inner diameter of said leadpipe.

- 13. A monoblock valve body for a musical instrument comprising: a single piece body further comprising a plurality of valve cylinders for receiving valves and a plurality of ports and interfaces in fluid communication with said valve cylinder, wherein said ports and interfaces are substantially perpendicular to the axis of said valve cylinder.
- 14. The monoblock valve body of claim 13 wherein said parts are in further fluid communication with tubes.
- 15. The monoblock valve body of claim 14 wherein said tubes comprise a lead pipe, a plurality of elongation tubes, and an exit tube.
- 16. The monoblock valve body of claim 13 wherein said interfaces provide fluid communication between valves.
- 17. The monoblock valve body of claim 13 wherein said valves are unimpeded.
- 18. The monoblock valve body of claim 13 wherein said valves further comprise valve guides.
- 19. The monoblock valve body of claim 13 wherein at S:\AIMDOCS\GLAZER\0034728\BY9900.DOC

least one valve casing further comprises a threaded region at the top portion of said valve casing to retain a valve piston.

[00054] 20. The monoblock valve body of claim 13 wherein at least one valve casing further comprises a threaded region at the top portion of said valve casing to receive a valve cover.